

02-21-05

02-21-05

•	1
1.	1
2.	1
3.	2
4.	3
5.	7
6.	11
• / •	49
1. / •	49
2. /	56
•	57
1.	57
2.	61
3.	75
4.	77
[]	80

.

1. : (Recording Engineer)

2.

()

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,

.

.

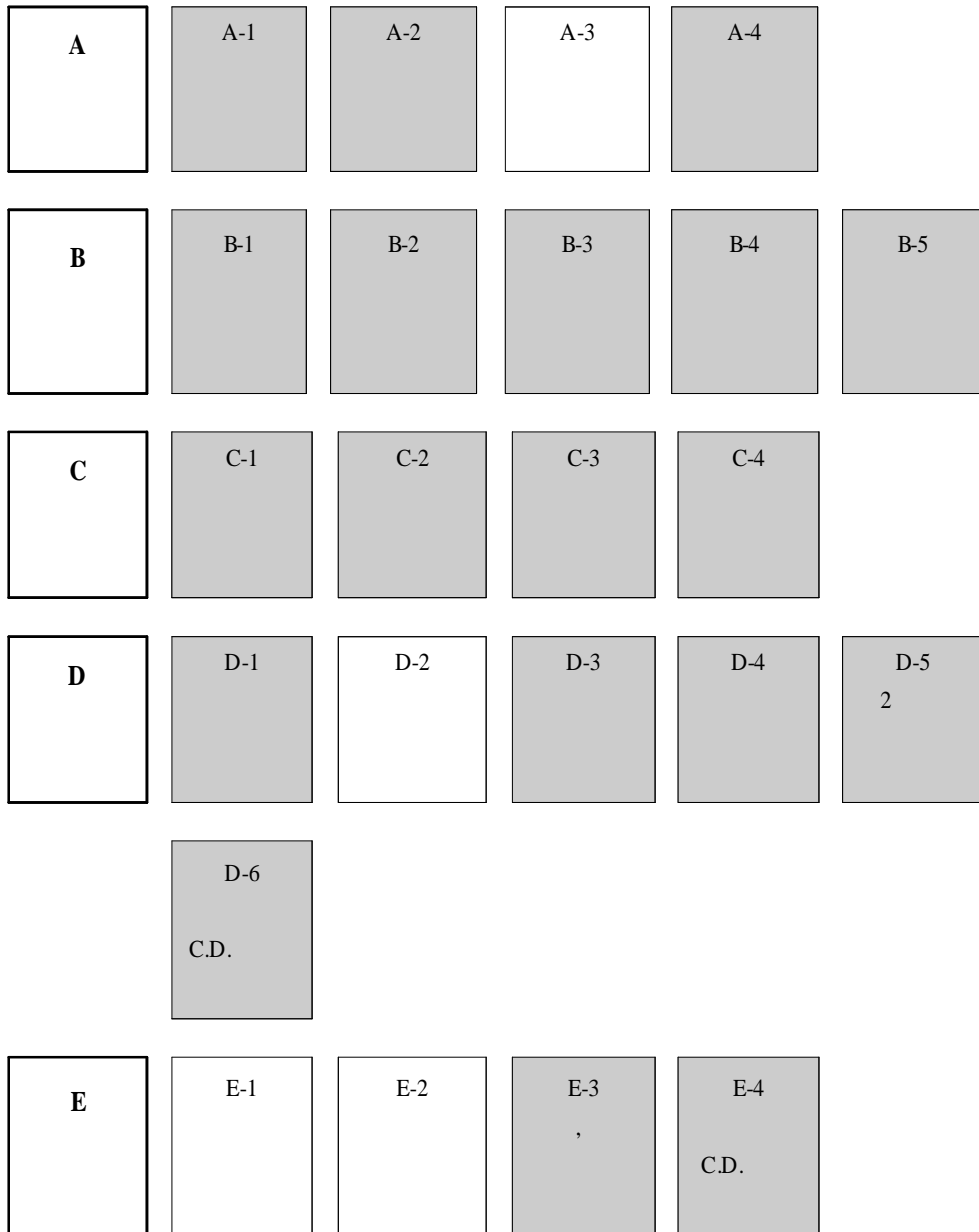
, , 가

, (

)

.

3.



: (Key Task) .

4.

가.				
		Recording Engineer	K.S.C.O.(No)	(23514)
				3
	,			1, 2
.				
			()	2
	18			
(OJT)	6		,	
	-			
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	-			.
	-			(
	-)	,	
	-	가	가	

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	- -
	- - → → → -
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	1,000 - 10,000 ()
	[] (6) → (1) → (3) → * 가 . [] - IT - -

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	/
	가 , , .
.	
	<pre> graph TD A[K.S.C.O. No. 235] --> B[K.S.C.O. No. 2351] A --> C[K.S.C.O. No. 2352] B --> D[K.S.C.O. No. 23514] B --> E[K.S.C.O. No. 23519] C --> F[K.S.C.O. No. 23523] </pre>
	<p>가 가</p> <p>가 .</p>

.				
			● ●	● ● ● ●
	()		● ● ●	
	(, ,)			● ● ● ● ●
	가			● ● ● ●
	가			● ● ● ●
			● ● ● ●	
			●	● ● ● ●
			● ● ● ● ● ●	
				● ● ● ●
				● ● ● ● ●

5.

가.				
(master)				
.				
	No			
A	1		●	●
	2		●	●
	3		●	●
	4		●	●
B	1		●	●
	2		●	●
	3		●	●
	4		●	●
	5		●	●
C	1		●	●
	2		●	●
	3		●	●
	4		●	●
D	1		●	●
	2		●	●
	3		●	●
	4		●	●
	5	2	●	●
	6	CD.	●	●
E	1		●	●
	2		●	●
	3	,	●	●
	4	CD.	●	●

(KEY TASK)								
	No							
			1	2	3			
A	1		●			●		●
	2		●					●
	4				●	●		●
B	1				●	●		●
	2			●		●		●
	3				●	●		●
	4				●	●		●
	5		●			●		●
C	1		●			●		●
	2		●			●		●
	3		●			●		●
	4		●			●		●
D	1		●			●		●
	3		●			●		●
	4		●			●		●
	5	2	●			●		●
	6		C.D.					
E	3		●			●		●
	4		●			●		●

•		
[]		
• (Console)	●	
• M.T.R.(Multi-Track Recorder)	●	
• (Microphone)	●	
• (Microphone Cable)		●
• (Microphone Stand)		●
• (Microphone Holder)		●
• 2 (2-Track Master Recorder)	●	
• (Monitor Speaker)		
• / (Free/ Power Amplifier)	●	
• (Outboard Gears)	●	
- (Reverbration)		
- (Delay)	●	
- (Harmonizer)	●	
- (Chorus)	●	
- (Flanger)	●	
- (Compressor)	●	
- (Limiter)	●	
- (Gate)	●	
- (Expander)	●	
- (Maximizer)	●	
- (Equalizer(parametric))	●	
- (Graphic Equalizer)	●	
- (Mic-pre Amplifier)	●	
- (Pitch Shifter)		●
- (Aural Exciter)		●
• (Patch Bay)	●	
• (Cassette Deck)	●	
• (Spectrum Analyzer)	●	
• U-Matic	●	

· A/D D/A Converter	●	
· D.A.W.(Digital Audio Workstation)-Protools System		
- Protools Software & Card	●	
- Protools Audio Interface	●	
- Protools Plug-ins	●	
- U.S.D.(Unversal Slave Driver)	●	
- M.I.D.I. Interface	●	
- S.C.S.I. Hard Disk	●	
- Machintosh Computer	●	
· A.V.R.(Auto Voltage Regulator)		●
· C.D. (Compact Disc Player)	●	
· C.D. (Compact Disc Recorder)	●	
· D.A.T. (Digital Audio Tape Recorder)	●	
· (Tester)		●
· / (Digital/ Analogue Meter)	●	
· (Screw Driver)		●
· (Tuner)		●
· (Phase Meter)	●	
· (Sonic Solution)	●	
·	●	
·		●
[]		
·	●	
·	●	
·		●
· (Track Sheet)		●
· (Cake Walk)	●	
· (Console Automation Program)	●	
· C.D. (C.D. Recording Program)	●	
·		●

6.

가.	A-1	
.		
.		
(1)		●
(2)		●
(3)		●
		●
.	(H/W)	C.D. , D.A.T. , / ,
	(S/W)	

. , (Related Knowledge, Skill & Attitude)		
(Knowledge)	. .	(1), (2) (1), (2)
(Skill)	.	(3)
(Attitude)		

가.	A-2	
.		
.		
(1)		●
(2)		●
		●
.	(H/ W)	,
	(S/ W)	

· , (Related Knowledge, Skill & Attitude)		
(Knowledge)	· ·	(1) (1)
(Skill)	·	(2)
(Attitude)		가

가.		A-4	
.		.	
.			
(1)		●	
(2)		●	
(3)		●	
(4)		●	
		●	
.	(H/W)	, , , / ,	
	(S/W)		

. , (Related Knowledge, Skill & Attitude)		
(Knowledge)	<ul style="list-style-type: none"> · · · 	(1), (2) (2), (3), (4) (3), (4)
(Skill)	<ul style="list-style-type: none"> · · · 	(2), (3), (4) (2), (3), (4) (2), (3), (4)
(Attitude)	가	.

가.		B-1	
.		.	
.			
(1)	.	●	
(2)	.		●
(3)	.	●	
(4)	.	●	
(5)	.		●
		●	
.	(H/ W)	, , , ,	
	(S/ W)		

· , (Related Knowledge, Skill & Attitude)		
(Knowledge)	· · · · ·	(1), (5) (1) (4) (2), (5)
(Skill)	· ·	(2), (3) (5)
(Attitude)	가 .	

가.	B-2	
.		
.		
(1)	가	●
(2)		●
(3)		●
(4)		●
(5)		●
(6)		●
		●
.	(H/W)	, , ,
.	(S/W)	

. , (Related Knowledge, Skill & Attitude)		
(Knowledge)	. .	(1), (5) (1), (5)
(Skill)	.	(2), (3), (4), (6)
(Attitude)	.	

가.	B-3	
.		
.		
(1) (2) (3) (4)		● ● ● ●
	●	
.	(H/W)	,
	(S/W)	

. , (Related Knowledge, Skill & Attitude)		
(Knowledge)	.	(1), (4)
(Skill)	.	(1), (2), (3)
(Attitude)	.	.

가.	B4	
.		
.		
(1)		●
(2)		●
(3)		●
		●
.	(H/W)	,
	(S/W)	

. , (Related Knowledge, Skill & Attitude)		
(Knowledge)		
(Skill)	.	(1), (2), (3)
(Attitude)	.	

가.	B-5	
.		
.		
(1)	E.Q. Filter	●
(2)	E.Q.	●
(3)	Dynamic	●
		●
.	(H/ W)	
	(S/ W)	

. , (Related Knowledge, Skill & Attitude)		
(Knowledge)	. .	(1), (2), (3) (1), (2), (3)
(Skill)	.	(1), (2), (3)
(Attitude)		

가.	C-1	
.		
.		
(1)		●
(2)		●
(3)		●
		●
.	(H/ W)	, M.T.R., , ,
.	(S/ W)	, , ,

· , (Related Knowledge, Skill & Attitude)		
(Knowledge)	· · ·	(1), (2), (3) (1), (2), (3) (1), (2), (3)
(Skill)	· , , ·	(1), (2), (3) (1), (2), (3)
(Attitude)	가 . ,	

가.	C-2	
.	가	
.		
(1)		●
(2)		●
(3)		●
(4)		●
(5)		●
(6)		●
		●
.	(H/ W)	, M.T.R., , , ,
.	(S/ W)	,

. , (Related Knowledge, Skill & Attitude)		
(Knowledge)	. .	(3) (1), (4)
(Skill)	. , , .	(1), (2), (3), (5) (1), (2), (3), (4), (6)
(Attitude)		, .

가.	C-3	
.	가	
.		
(1)		●
(2)		●
(3)		●
(4)		●
(5)		●
		●
.	(H/W)	, M.T.R., , ,
.	(S/W)	,

· , (Related Knowledge, Skill & Attitude)		
(Knowledge)	· ·가	(1) (1)
(Skill)	· , , · ·	(2), (3) (2), (3), (4), (5) (3)
(Attitude)	가	·

가.		C-4
.		.
.		
(1)	.	●
(2)	.	●
(3)	.	●
(4)	.	●
		●
.	(H/ W)	, D.A.W.-Protocols ,
	(S/ W)	,

. , (Related Knowledge, Skill & Attitude)		
(Knowledge)	. , . .	(1) (2) (3), (4)
(Skill)	.	(3), (4)
(Attitude)		

가.	D-1	
.	C.D.	
.		
(1)		●
(2)		●
(3)		●
(4)	Patch Setup	●
(5)	Compressor/ Limiter	●
(6)	Reverb	●
(7)	Delay	●
(8)	Pitch Shifter	●
(9)	Aural Exciter	●
(10)		●
(11)		●
(12)		●
		●
.	(H/ W)	, D.A.W.-Protools , M.T.R., D.A.T. ,
.	(S/ W)	,

<p style="text-align: center;">. , (Related Knowledge, Skill & Attitude)</p>		
(Knowledge)	<ul style="list-style-type: none"> • • • • • • 	<p>(1)</p> <p>(1)</p> <p>(3), (5), (6), (7), (8), (9)</p> <p>(4)</p> <p>(1),(2),(3),(4),(5),(6),(7),(8),(9),(10),(11),(12)</p> <p>(2)</p>
(Skill)	<ul style="list-style-type: none"> • • • • 	<p>(1),(2),(5),(6),(7),(8),(9),(10),(11),(12)</p> <p>(1), (2)</p> <p>(3),(4),(5),(6),(7),(8),(9)</p> <p>(5),(6),(7),(8),(9),(10),(11),(12)</p>
(Attitude)		

가.	D-3	
.		
.		
(1)		●
(2)		●
(3)	가	●
(4)	Patch Setup	●
(5)	Compressor/ Limiter	●
(6)	Reverb	●
(7)	Delay	●
(8)	Pitch Shifter	●
(9)	Aural Exciter	●
		●
.	(H/ W)	, D.A.W.-Protools , M.T.R., D.A.T.
.	(S/ W)	,

. , (Related Knowledge, Skill & Attitude)		
(Knowledge)	<ul style="list-style-type: none"> · · · 	(1), (2), (3) (4), (5), (6), (7), (8), (9) (4), (5), (6), (7), (8), (9)
(Skill)	<ul style="list-style-type: none"> · · · · 	(1), (3), (5), (6), (7), (8), (9) (1) (4), (5), (6), (7), (8), (9) (2), (3), (5), (6), (7), (8), (9)
(Attitude)	가 .	

가.	D-4	
(1)		●
(2)	Volume Fader	●
(3)	1	●
(4)	Aux.	●
(5)	Compressor/ Limiter	●
(6)	Reverb	●
(7)	Delay	●
(8)	Pitch Shifter	●
(9)	Aural Exciter	●
		●
	(H/ W)	(automated), , D.A.W.-Protocols , M.T.R., D.A.T.
	(S/ W)	

. , (Related Knowledge, Skill & Attitude)		
(Knowledge)	. .	(1), (2), (3), (4), (5), (6), (7), (8), (9) (1), (2), (3), (4), (5), (6), (7), (8), (9)
(Skill)	. .	(1), (2), (3), (4), (5), (6), (7), (8), (9) (2), (3), (4), (5), (6), (7), (8), (9)
(Attitude)	, 가	

가.	D-5 2	
.		
.		
(1)	Master Compressor	●
(2)	D.A.T.	●
(3)	D.A.T.	●
		●
.	(H/ W)	, D.A.W.-Protools , M.T.R., D.A.T.
.	(S/ W)	,

· , (Related Knowledge, Skill & Attitude)		
(Knowledge)	· ·	(1), (2), (3) (1), (2), (3)
(Skill)	· ·	(1), (2) (1), (2), (3)
(Attitude)	가 가	, ·

가.	D-6 C.D.	
.	가 가 .	
.		
(1)	가 mute .	●
(2)	mute .	●
(3)	D.A.T. .	●
(4)	C.D. .	●
(5)	. .	●
		●
.	(H/ W)	, D.A.W.-Protools , M.T.R., D.A.T. , C.D.
.	(S/ W)	, , C.D.

. , (Related Knowledge, Skill & Attitude)		
(Knowledge)	<ul style="list-style-type: none"> · · 	(1), (2), (3), (4), (5) (1), (2), (3), (4), (5)
(Skill)	<ul style="list-style-type: none"> · · · 	(1), (2), (3), (4), (5) (3), (4), (5)
(Attitude)	가 가 C.D.	

가.	E-3 ,	
.	2	
.		
(1)	2	●
(2)		●
(3)		●
(4)		●
		●
.	(H/ W)	, D.A.T. , , , U-Matic, C.D. , ,
	(S/ W)	,

· , (Related Knowledge, Skill & Attitude)		
(Knowledge)	· · ·	(1) (2), (3) (1), (2), (3), (4)
(Skill)	· · ·	(1), (2), (3) (1), (4) (1), (2), (3), (4)
(Attitude)	가 . 가	

가.	E-4 C.D.	
.	2 C.D.	
.		
(1)	2	●
(2)		●
(3)		●
		●
.	(H/ W)	, D.A.T. , C.D., U-Matic
.	(S/ W)	, C.D.

• , (Related Knowledge, Skill & Attitude)		
(Knowledge)	•	(1), (2), (3)
(Skill)	•	(1), (2), (3)
(Attitude)		

. / . .

1. / . .

가. /

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A-1	●	●													
A-2			●	●											
A-4					●	●	●								
B-1		●						●	●	●	●				
B-2											●	●			
B-3												●			
B-4															
B-5											●	●			
C-1								●							●
C-2								●							●
C-3															●
C-4	●		●		●										●
D-1												●	●	●	
D-3												●		●	
D-4												●			
D-5 2												●			
D-6 C.D.												●			
E-3 ,														●	●
E-4 C.D.												●			

	16	17	18	19	20	21	22	23	24	25				
			가											
A-1														
A-2														
A-4														
B-1														
B-2														
B-3														
B-4														
B-5														
C-1		●												
C-2														
C-3			●											
C-4				●	●	●								
D-1	●						●		●					
D-3									●					
D-4									●					
D-5 2								●						
D-6 C.D.								●						
E-3 ,										●				
E4 C.D.														

. /

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A-1	●														
A-2		●													
A-4			●	●	●										
B-1						●	●								
B-2								●							
B-3									●						
B-4										●					
B-5											●				
C-1												●			
C-2												●			
C-3								●					●	●	
C-4															●
D-1															
D-3															
D-4															
D-5 2													●		
D-6 C.D.													●		
E-3 ,															
E-4 C.D.															

	16	17	18	19	20													
A-1																		
A-2																		
A-4																		
B-1																		
B-2																		
B-3																		
B-4																		
B-5																		
C-1	●																	
C-2	●																	
C-3	●																	
C-4																		
D-1		●	●	●	●													
D-3		●	●	●	●													
D-4				●	●													
D-5 2				●														
D-6 C.D.				●	●													
E-3 ,			●	●	●													
E4 C.D.				●														

. /

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	C.	D.													
	D.	A.													
	T.	/					/								
A-1	●	●	●	●											
A-2															
A-4					●	●	●	●	●	●					
B-1											●	●	●	●	●
B-2					●	●									
B-3							●								
B-4															
B-5															
C-1				●	●					●					●
C-2				●	●						●				
C-3				●	●										
C-4				●											
D-1		●													
D-3		●													
D-4		●													
D-5 2		●													
D-6 C.D.		●													
E-3 ,		●		●						●					
E-4 C.D.		●								●					

	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
								M. T. R.			D. A. W.				C. D.
A-1															
A-2															
A-4															
B-1															
B-2	●	●													
B-3					●										
B-4				●											
B-5						●	●								
C-1			●	●		●	●	●							
C-2			●	●		●	●	●							
C-3			●	●		●	●	●							
C-4			●			●					●	●			
D-1						●	●	●	●	●	●		●		
D-3						●	●	●		●	●		●		
D-4						●	●	●		●	●		●	●	
D-5 2						●	●	●		●	●		●		
D-6 C.D.						●	●	●		●	●		●		●
E-3 ,						●									●
E-4 C.D.						●									

	31	32	33	34	35	36	37										
	C. C. D.	C. D.			U -												
A-1																	
A-2																	
A-4																	
B-1																	
B-2																	
B-3																	
B-4																	
B-5																	
C-1																	
C-2																	
C-3																	
C-4																	
D-1																	
D-3																	
D-4																	
D-5 2																	
D-6 C.D.		●															
E-3 ,			●	●	●	●	●										
E-4 C.D.	●	●			●												

2. /

	1	2	3	4						
		I +	II +	III +						
		I	II							
A-1	●	●	●	●						
A-2			●	●						
A-4	●	●	●	●						
B-1	●	●	●	●						
B-2	●	●	●	●						
B-3		●	●	●						
B-4	●	●	●	●						
B-5	●	●	●	●						
C-1		●	●	●						
C-2		●	●	●						
C-3		●	●	●						
C-4			●	●						
D-1			●	●						
D-3			●	●						
D-4			●	●						
D-5 2			●	●						
D-6 C.D.			●	●						
E-3 ,				●						
E-4 C.D.				●						

1.

:			
:			
	.		
		()	
1.		[: 75]	●
2.	.	(25)	●
3.		(25)	●
	C.D. , , , , / ,		
()			

:			
: +			
	()		
1.	[: 144] 48	●	
2.	48	●	
3. Studio	36		●
4.	48		●
	, M.T.R., , , /		
	, 2 ,		
	, ,		
()	,		

:			
: +			
		()	
1.		[: 192] 48	●
2.		48	●
3. D.A.W.		48	●
4.		48	●
	, M.T.R., , , / , , D.A.W.-Protocols		
	+ , ,		
	, ,		
()	+		

:			
: +			
	.		
		()	
1.		[: 192]	●
2. Mix		48	●
3.		48	●
		96	●
	+	,	,
	,	,	
()	+	,	

2.

:		
:		
	.	
		[: 25]
1.	가. . , , . , ,	5
2.	가. , , . .	5
3.	가.	5
4.	가.	5
5.	가.	5
	C.D. , ,	
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	.	
		[: 25]
1.	가. , , () . .	5
2.	가. . .	5
3.	가. . . OP-amp	5
4.	가. , . .	5
5.	가. . .	5
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		[: 25]
		[: 25]
1.	가. .	5
2.	가. .	20
	C.D. , / ,	
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		[: 48]
1.	가. · · · 가. · · ·	12
2.	· , , , · · · 가. · · ·	12
3.	· · · 가. · · ·	12
4.	· · · · · Aliasing, Nyquist, , · Dither · · ·	12
()		

		: +
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		[: 48]
1.	가. .	12
2. M.T.R.	가. M.T.R. . . Noise Reduction	12
3.	가. . Channel Section . Monitor Section . Master Section . Signal Flow	12
4.	가. . . Pitch Shift . Dynamic	12
()		

: +		
: Studio		
		[: 16]
1.	가. . .	4
2.	가. . .	4
3.	가. Setup . Setup .	4
4.	가. . M.T.R. . Punch In-Out	4
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		[: 48]
1.	가. 2 . 2 .	12
2. Setup	가. . . .	12
3. Voice	가. . Effect . Punch In-Out	21
4.	가. . Mix	3
	, 2 , , , , , , /	
	,	
()	, , Studio	

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	.	
		[: 48]
1. Effect	가. (Reverb) . (Delay) . Daynamic Effect . Pitch shift Effect . Equalizer Effect	16
2. Sound Analysis	가. Volume Balance . Stereo Image . Dynamic Range . .	16
3. Mix	가. Mix . Classic Mix . Live Mix	16
	, M.T.R., , / ,	
	,	
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		[: 48]
1.	가. SSL . SSL . SSL .	24
2.	가. . . Driver, Incluser . . Cross Over	24
	, , /	
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: +		
: D.A.W.		
	D.A.W.	D.A.W.
		[: 48]
1. D.A.W.	가. Hardware . Hard Disk . Sound Forge	24
2. Protools	가. . Edit . Record . Mix . Plug-Ins . M.I.D.I. . Mastering	24
	D.A.W.,	
	,	
()	+ , ,	

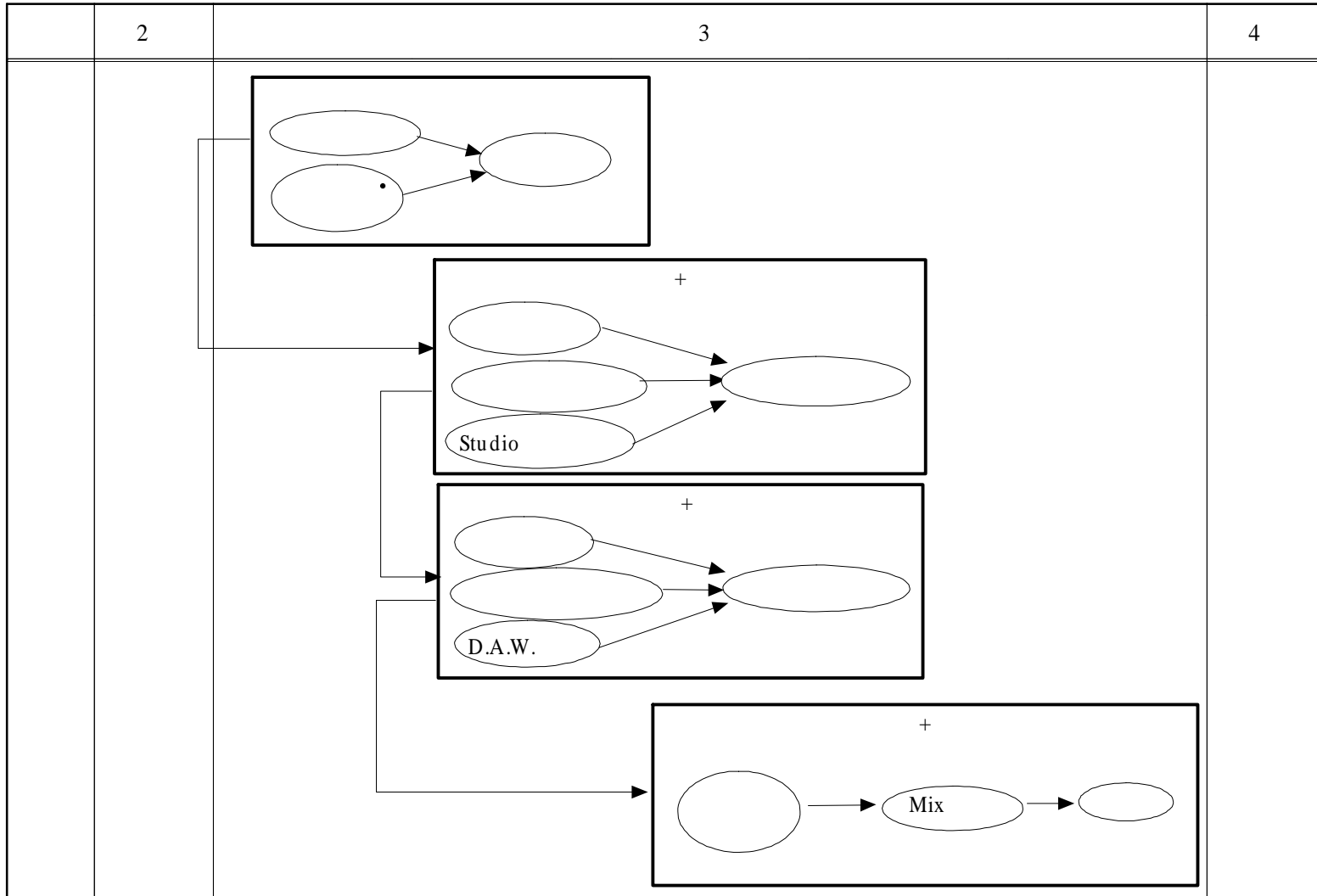
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		[: 48]
1.	가. Drum . Guitar . Piano . . M.I.D.I.	28
2.	가. . .	8
3. Vocal	가. Solo . Duet . Chorus . Choir	12
	, M.T.R., , , / , , D.A.W.-Protools	
	, ,	
()	, , , D.A.W.	

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		[: 48]
1. Band		30
2. M.I.D.I.		8
3. Live		10
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: Mix		
	Mix	Mix
		[: 48]
1. Mix		38
2. Classic Mix		10
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			[: 96]
1.			96
	,		
()	+	,	, Mix

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	2	, , , , . , , M.I.D.I. 가 .	
	1	, , , , . , , M.I.D.I. 가 .	
		()	
	1.	(30%)	가. Sound Analysis . 가. . . M.T.R. . . D.A.W. 가. . . Setup .
	2.	(20%)	가. . . M.T.R. . . D.A.W. 가. . . Setup .
	3.	(20%)	가. . . Setup .
	2	5	● ●
	1	5	

	2	가 . , M.I.D.I.	
	1	가 . , M.I.D.I.	
		()	
	1.	(10%)	가. . . . Jazz History()
	2.M.I.D.I.(Musical Instrument Digital Interface)	(10%)	가. M.I.D.I. . Sequencer . Synchronizer
	1.	(10%)	가.
	2	5	● ● ● ● ● ● ●
	1	5	● ● ● ● ● ● ● ●

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		1. (30%)	가. Setup . . D.A.W.-Protools ● ● ● ● ● ●
		2. (30%)	가. . Classic . M.I.D.I. ● ● ● ●
		1. (40%)	가. Setup . Setup . Setup ● ● ● ● ●
		2	, C.D. , D.A.W.-Protools
		1	, C.D. , A/ D D/ A Converter, D.A.W.-Protools
		2	,
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MBC	1 , 6	W.S.R.(Workshop of Sound Recording)	-

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